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Appin. No. 10/799,008

Attorney Docket No. 10541-1941

## I. Amendments to the Claims

1-11. (Cancelled).

12. (Currently Amended): A resonator for attenuating acoustic pressure pulsation from an air passage, the resonator comprising:

a neck attached in a side branch configuration with the air passage, the neck having a neck length;

at least one wall of the resonator forming a resonator chamber;

a first member located within the resonator chamber, the first member cooperating with the at least one wall to form a resonator volume;

a first actuator coupled to the first member and configured to translate the first member changing the resonator volume and the neck length; and

a second actuator coupled with the first member and the neck, the second actuator being configured to adjust the neck length relative to a position of the first member.

13. (Original): The resonator according to claim 12, wherein the second actuator is configured to vary the neck length.

14. (Original): The resonator according to claim 12, wherein the second actuator includes a motor and a screw.

15. (Currently Amended): A resonator for attenuating acoustic vibration from an air passage, the resonator comprising:

BRINKS
HOFER
GILSON

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a neck attached in a side branch configuration with the air passage, the neck having a neck length;

at least one wall of the resonator forming a resonator chamber;

a first member located within the resonator chamber, the first member cooperating with the at least one wall to form a resonator volume;

an actuator coupled to the first member and configured to translate the first member changing the resonator volume and the neck length; and

a second member coupled to the first member and the neck, [[and]] the second member being configured to change the resonator volume in relation to the neck length.

16-19. (Cancelled).

20. (New): The resonator according to claim 12, wherein the second actuator is configured to manipulate a second member that engages the neck and the first member.

21. (New): The resonator according to claim 12, wherein the first actuator is a motor and crankshaft.